

Purchase Order Receipt Listing

Tuesday, February 14, 2017 4:09:59 PM

All Vendors	PO ID PO35245	All Receipt Dates	All Line Item Types
All Item ID/GL/WOs	All Rec. Employees	All Currencies	
Grouped by Vendor ID			

Page 1 of 2

All Vendors PO ID PO35245 All Receipt Dates All Line Item Types
All Item ID/GL/WOs All Rec. Employees All Currencies
Grouped by Vendor ID

Purchase Order ID/ Curr Type	Line Nbr/ Insp Req	Project ID	Reference/ Description/ Cert Std	PO U/M / Stock U/M	Required Date Required Qty	Recv Date/ Recv Emp	Recv Qty (PO U/M)	Cost Per Unit/ Recv Value	Inspected Qty/ Rejected Qty (PO U/M)	MRB Qty/ MRB Reject Qty	Book Amt
VendorID	Vendor Name	VU-TWM001	TW Metals								
PO35245	10		M4130NT1.000W.12 f 0		2/17/2017	2/14/2017	24.0000		0.0000	0	\$0.00
USD	No		4130 RD Tube 1.00 x f .120wall m136846		20.0000	PLOU01			0.0000	0	
		11	71401-45 PROCUREMENT QUALITY CLAUSES m136846		2/17/2017	2/14/2017	1.0000		0.0000	0	\$0.00

Total Received Quantity: 257.0000
 Total Qty to Inspect (PO U/M): 0.0000
 Total Reject Quantity: 0.0000
 Total Receipt Value: \$0.00
 Total Balance Due Quantity: 0.0000



O'Neal High-Performance Metals Group



Packing
Slip

ORDER NO.: 60625241 FROM: CRAN PAGE 1

CUST NUMBER: 1203820 NET WGT: 81.486 REQ.DATE: 02/15/17 CONFIRMED
 SOLD TO:
 DART AEROSPACE LTD
 1270 ABERDEEN ST
 HAWKESBURY ON
 CANADA CN K6A 1K7
 SHIP TO:
 DART AEROSPACE LTD
 1270 ABERDEEN ST
 HAWKESBURY ON
 ONTARIO CANADA CN K6A 1K7

SALESPERSON: DONNA SMALLEY SHIP BY: 02/10/17
 TERMS: NET 30 DAYS VIA: COMMON CARRIER
 F.O.B.: SHIPPING POINT FREIGHT: PREPAID
 CUST ORD NO.: PO35245 RELEASE NO.:
 RECEIVING PHONE:

LINE ITEM DESCRIPTION
 0001 36506 SMLS CD 304/L A269 1/2 OD X .049 WA ✓ LENGTH
 CLN# ORD QTY INVOICE QTY SHIPPED QTY 20.000 FT 20.000 FT 20' ML
 20.000 FT 20.000 FT 20.000 FT WT 4.718

PCS
1

** 1 TEST REPORTS REQUIRED **
 ** 1 CERTS REQUIRED **

ECCN: 2B999.g Export License: NLR Expiration Date: 0/00/00
 PO:49339077 HT:YX1506712 PC: 1 CUSTOMER QTY: 20.000 UOM FT
 MLT:CHINA MFG:CHINA SLB/CL:9-116

0002 36860 SMLS CD 304/L A269 3/4 OD X .049 WA ✓ 20' CL

CLN# ORD QTY INVOICE QTY SHIPPED QTY 80.000 FT 80.000 FT 80.000 FT WT 29.338

PCS
4

** 1 TEST REPORTS REQUIRED **
 ** 1 CERTS REQUIRED **

ECCN: 2B999.g Export License: NLR Expiration Date: 0/00/00
 PO:49342471 HT:YX1501783 PC: 4 CUSTOMER QTY: 80.000 UOM FT
 MLT:CHINA MFG:CHINA SLB/CL:11-63

0003 41952 D6061-T6 3/8 OD X .058 WA ✓ 12' FT ML

CLN# ORD QTY INVOICE QTY SHIPPED QTY 48.000 FT 48.000 FT 48.000 FT WT 3.254

PCS
4

** 1 TEST REPORTS REQUIRED **
 ** 1 CERTS REQUIRED **

ECCN: EAR99 Export License: NLR Expiration Date: 0/00/00
 PO:49361230 HT:1180968 PC: 4 CUSTOMER QTY: 48.000 UOM FT
 MLT:UNITED STATES MFG:UNITED STATES SLB/CL:438268

8/17/02-14

1
THANK YOU FOR THIS ORDER

TERMS AND CONDITIONS APPLICABLE TO THE SALE OF THESE
 PRODUCTS ARE SET FORTH ON OUR WEBSITE FOR YOUR CAREFUL
 REVIEW.
<http://www.twmetals.com/invoice-terms.html>



O'Neal High-Performance Metals Group



**Packing
Slip**

ORDER NO.: 60625241 FROM: CRAN PAGE 2

CUST NUMBER: 1203820 NET WGT: 81.486 REQ. DATE: 02/15/17 CONFIRMED
 SOLD TO:
 DART AEROSPACE LTD
 1270 ABERDEEN ST
 HAWKESBURY ON
 CANADA CN K6A 1K7
 SHIP TO:
 DART AEROSPACE LTD
 1270 ABERDEEN ST
 HAWKESBURY ON
 ONTARIO CANADA CN K6A 1K7

SALESPERSON: DONNA SMALLEY SHIP BY: 02/10/17
 TERMS: NET 30 DAYS VIA: COMMON CARRIER
 F.O.B.: SHIPPING POINT FREIGHT: PREPAID
 CUST ORD NO.: PO35245 RELEASE NO.:
 RECEIVING PHONE:

LINE ITEM DESCRIPTION WIDTH LENGTH
 0004 42588 D6061-T6 5/8 OD X .125 WA 12 FT ML

CLN#	ORD QTY	INVOICE QTY	SHIPPED QTY	WT
	24.000 FT	24.000 FT	24.000 FT	5.541

** 1 TEST REPORTS REQUIRED **
 ** 1 CERTS REQUIRED **

ECCN: EAR99 Export License: NLR Expiration Date: 0/00/00
 PO:49360917 HT:F002299760001 PC: 2 CUSTOMER QTY: 24.000 UOM FT
 MLT:UNITED STATES MFG:UNITED STATES SLB/CL:221973

0005 36225 SMLS CD 304/L A269 3/8 X .035 WA 20' ML

CLN#	ORD QTY	INVOICE QTY	SHIPPED QTY	WT
	20.000 FT	20.000 FT	20.000 FT	2.542

** 1 TEST REPORTS REQUIRED **
 ** 1 CERTS REQUIRED **

ECCN: 2B999.g Export License: NLR Expiration Date: 0/00/00
 PO:49354071 HT:YX1509583 PC: 1 CUSTOMER QTY: 20.000 UOM FT
 MLT:CHINA MFG:CHINA SLB/CL:10-46

0006 36311 SMLS CD 304/L A269 3/8 OD X .065 WA 20' ML

CLN#	ORD QTY	INVOICE QTY	SHIPPED QTY	WT
	20.000 FT	20.000 FT	20.000 FT	4.303

** 1 TEST REPORTS REQUIRED **
 ** 1 CERTS REQUIRED **

ECCN: 2B999.g Export License: NLR Expiration Date: 0/00/00
 PO:49329273 HT:YX1410664 PC: 1 CUSTOMER QTY: 20.000 UOM FT
 MLT:CHINA MFG:CHINA SLB/CL:4-34

THANK YOU FOR THIS ORDER

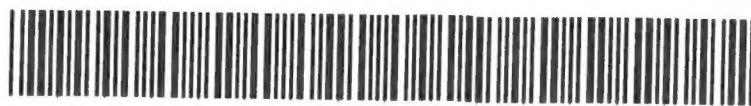
TERMS AND CONDITIONS APPLICABLE TO THE SALE OF THESE
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<http://www.twmelts.com/invoice-terms.html>

SPH-024



O'Neal High-Performance Metals Group



**Packing
Slip**

ORDER NO.: 60625241 FROM: CRAN PAGE 3

CUST NUMBER: 1203820 NET WGT: 81.486 REQ. DATE: 02/15/17 CONFIRMED
 SOLD TO:
 DART AEROSPACE LTD
 1270 ABERDEEN ST
 HAWKESBURY ON
 CANADA CN K6A 1K7
 SHIP TO:
 DART AEROSPACE LTD
 1270 ABERDEEN ST
 HAWKESBURY ON
 ONTARIO CANADA CN K6A 1K7

SALESPERSON: DONNA SMALLEY SHIP BY: 02/10/17
 TERMS: NET 30 DAYS VIA: COMMON CARRIER
 F.O.B.: SHIPPING POINT FREIGHT: PREPAID
 CUST ORD NO.: PO35245 RELEASE NO.:
 RECEIVING PHONE:

LINE ITEM DESCRIPTION
 0007 31954 SMLS CD 4130 RD 6736 1/2 X .049 ✓ WIDTH 17/24 LENGTH
 FT FT

CLN#	ORD QTY 20.000 FT	INVOICE QTY 20.000 FT	SHIPPED QTY 20.000 FT	WT 4.718
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PCS
1

** 1 TEST REPORTS REQUIRED **
 ** 1 CERTS REQUIRED **

ECCN: 9A991.d Export License: NLR Expiration Date: 0/00/00
 PO:49355846 HT:251772 PC: 1 CUSTOMER QTY: 20.000 UOM FT
 MLT:GERMANY MFG:GERMANY SLB/CL:1627804

0008 33364 SMLS CD 4130 RD 6736 1 X .120 ✓ 17/24 LENGTH
 FT FT

CLN#	ORD QTY 20.000 FT	INVOICE QTY 24.000 FT	SHIPPED QTY 24.000 FT	WT 27.072
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PCS
1

** 1 TEST REPORTS REQUIRED **
 ** 1 CERTS REQUIRED **

ECCN: 9A991.d Export License: NLR Expiration Date: 0/00/00
 PO:49354259 HT:MM16101444 PC: 1 CUSTOMER QTY: 24.000 UOM FT
 MLT:UNITED STATES MFG:UNITED STATES SLB/CL:143275

BROKERS KUEHNE AND NAGEL LTD

AREA	TYPE OF PKG	PACK INFO			WIDTH	LENGTH	HIGHT
		PKGS	GRS	WEIGHT			
B	CARTON	1.000		86.000			

BY: CI
 RT 000-

1.000 86.000

UNLOAD TYPE: NONE SPECIFIED

DATE SHIPPED _____

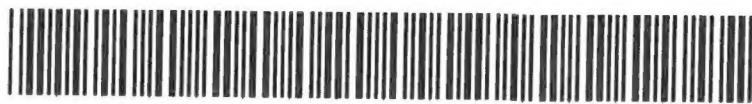
DATE FILLED _____

THANK YOU FOR THIS ORDER

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O'Neal High-Performance Metals Group



Packing
Slip

ORDER NO.: 60625241 FROM: CRAN PAGE 4

CUST NUMBER: 1203820	NET WGT:	81.486	REQ. DATE: 02/15/17 CONFIRMED
SOLD TO:		SHIP TO:	
DART AEROSPACE LTD		DART AEROSPACE LTD	
1270 ABERDEEN ST		1270 ABERDEEN ST	
HAWKESBURY ON		HAWKESBURY ON	
CANADA	CN K6A 1K7	ONTARIO CANADA	CN K6A 1K7
SALESPERSON:	DONNA SMALLEY	SHIP BY:	02/10/17
TERMS:	NET 30 DAYS	27 ENGLEHARD DRIVE	
F.O.B.:	SHIPPING POINT	MONROE TWP	NJ 08831
CUST ORD NO.:	PO35245		
VIA:	COMMON CARRIER		
FREIGHT:	PREPAID		
RELEASE NO.:			
RECEIVING PHONE:			

"TW Metals MSDS data is available on our web site at www.twmetals.com. MSDS data can be found under the Technical Resources Tab, Product Statistics & Data and the TW Metals MSDS's heading. If you do not have web site access you may telephone 610-458-1300 and we will mail or fax a copy of our current MSDS data to your location."

"CERTIFICATE OF CONFORMANCE"

"TW Metals certifies that the material supplied on this purchase order and contained in the heat/lot number referenced above has been manufactured, inspected, and tested in accordance with the material specification. These records are on file at TW Metals. Packaging material for shipments to Europe and China consists of manufactured wood products and complies with the European emergency measures for coniferous non-manufactured wood packing material"

Authorized Test Report Clerk Lynne McHenry Date: 2/10/17

These commodities have been exported from the United States in accordance with the U.S. export control laws, export administrations regulations. Diversion contrary to U.S. law prohibited.

PUFA™

Producer of Premium Stainless Steel Seamless Tubes

MILL TEST REPORT

Purchaser.: TW METALS-Carol Stream	Certificate No.: 15-11-181								
Contract No.: TWM P.O.No.: M49339077	Date of Issue.: 2015.11.7								
Commodity: Stainless Steel Seamless Tubes	Specifications: ASTM A213-15/ASME SA213-13/ASTM A269-14e1-EAW								
Process: Cold Drawn	Delivery Condition: OD Polished to 240 Grit								
Steel Grade	Heat Number	Lot Number	Dimensions		Quantity				
TP304/TP304L	YX1506-712	9-116	1/2" x 0.049" x 20'		Pieces	Feet			
Chemical Composition by Weight (%)									
Element	C	Mn	P	S	Si	Cr	Ni	Mo	Co
Requirements	≤0.035	≤2.00	≤0.045	≤0.030	≤1.00	18.00-20.00	8.00-12.00	-	-
Ladle Analysis	0.013	0.65	0.032	0.002	0.32	18.28	8.05	-	-
Product Analysis	0.017	0.61	0.033	0.002	0.28	18.31	8.55	-	-
Mechanical Properties									
Test Item	Elongation (% in 2")		Tensile Strength (PSI) Rm			Yield Strength (PSI) Rp / 0.2%			
Requirements	≥35		≥75,000			≥30,000			
Test Results	63/64		91,000/92,000			36,000/37,000			
Test Item	Reduction of Area Z (%)	Hardness	Cold Bend Test	Flaring Test	Flattening Test	Flange Test	P.M.I. Test		
Requirements	-	HRB≤80	-	22%	e=0.09	-	-		
Test Results	-	76/78	-	Passed	Passed	-	-	OK	
Test Item	Eddy Current Test	Air Underwater Pressure Test	Ultrasonic Test	Intergranular Corrosion Test	Macroscopic Inspection				
Requirements	ASTM E 426	-	-	ASTM A262 E	End Cut	Appearance			
Test Results	Passed	-	-	OK	OK	OK			

ISO 9001:2008 Certified by Intertek 110703068

PED Certified by SZUTEST 2195-PED-1526002

Additional Remarks:

- (1) All tubes annealed to above 1900 Deg F and water quenched below 800 Deg F in 3 minutes
- (2) All tubes tested per ASTM A1016-14
- (3) Materials is NACE MR0103-2007 compliant (per Section 2.5)
- (4) Materials is NACE MR0175/ISO 15156-2003 compliant (per Section 4.2.1)
- (5) In Compliance with EN 10204-3.1
- (6) In Compliance with RoHS Stipulation
- (7) No weld repair performed
- (8) Free from mercury contamination
- (9) Free from radioactive contamination
- (10) Billets melt and pipes/tubes manufactured in China
- (11) All tubes 100% PMI tested
- (12) All tubes 100% Eddy Current tested

**CANNOT CERTIFY COMPLIANCE
FAR BAA / DFARS BAA / FAR TAA**

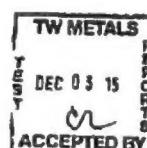
By:

James Shi

James Shi / Manager
Quality Control Department

We hereby certify that this report is true and correct.

Shanghai Pufa Stainless Steel Pipe Factory
No. 59, Shuangye Road, Wanggang , New Pudong District, Shanghai, China



PUFA™

Producer of Premium Stainless Steel Seamless Tubes

MILL TEST REPORT

Purchaser.: TW METALS-Cranbury	Certificate No.: 16-1-13				
Contract No.: TWM P.O.No.: M49342471	Date of Issue.: 2016.1.5				
Commodity: Stainless Steel Seamless Tubes	Specifications: ASTM A213-15c/ASME SA213-15/ASTM A269-15a EAW				
Process: Cold Drawn	Delivery Condition: OD Polished to 240 Grit				
Steel Grade	Heat Number	Lot Number	Dimensions	Quantity	
TP304/TP304L	YX1501-783	11-63	3/4" x 0.049" x 20'	Pieces	Feet
Chemical Composition by Weight (%)					

Element	C	Mn	P	S	Si	Cr	Ni	Mo	Co
Requirements	≤0.035	≤2.00	≤0.045	≤0.030	≤1.00	18.00-20.00	8.00-12.00	-	-
Ladle Analysis	0.012	0.68	0.031	0.001	0.37	18.35	8.05	-	-
Product Analysis	0.019	0.70	0.033	0.002	0.39	18.37	8.31	-	-

Mechanical Properties													
Test Item	Elongation (% in 2")		Tensile Strength (PSI)			Yield Strength (PSI)							
			Rm			Rp / 0.2%							
Requirements	≥35		≥75,000			≥30,000							
	65/66		89,000/90,000			34,000/35,000							
Test Item	Reduction of Area Z (%)	Hardness	Cold Bend Test	Flaring Test	Flattening Test	Flange Test	P.M.I. Test						
Requirements	-	HRB≤80	-	22%	e=0.09	-	-						
Test Item	Eddy Current Test	Air Underwater Pressure Test	Ultrasonic Test	Intergranular Corrosion Test	Macroscopic Inspection								
					ASTM A262 E								
Requirements	ASTM E 426	-	-	OK	OK	OK							
Test Results	Passed	-	-	OK	OK	OK							

ISO 9001:2008 Certified by Intertek 110703068

PED Certified by SZUTEST 2195-PED-1526002

Additional Remarks:

- (1) All tubes annealed to above 1900 Deg F and water quenched below 800 Deg F in 3 minutes
- (2) All tubes tested per ASTM A1016-14
- (3) Materials is NACE MR0103-2007 compliant (per Section 2.5)
- (4) Materials is NACE MR0175/ISO 15156-2003 compliant (per Section 4.2.1)
- (5) In Compliance with EN 10204-3.1
- (6) In Compliance with RoHS Stipulation
- (7) No weld repair performed
- (8) Free from mercury contamination
- (9) Free from radioactive contamination
- (10) Billets melt and pipes/tubes manufactured in China
- (11) All tubes 100% PMI tested
- (12) All tubes 100% Eddy Current tested

**CANNOT CERTIFY COMPLIANCE
FAR BAA / DFARS BAA / FAR TAA**

By:

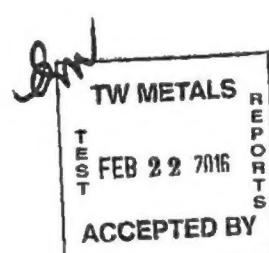


James Shi / Manager

Quality Control Department

We hereby certify that this report is true and correct.

Shanghai Pufa Stainless Steel Pipe Factory
No. 59, Shuangye Road, Wanggang, New Pudong District, Shanghai, China





PRECISION TUBE CO.

287 WISSAHICKON AVE.
NORTH WALES PA 19454

Control No: 2839

A COMPANY OF MUELLER INDUSTRIES

CERTIFIED TEST REPORT

CUSTOMER PURCHASE ORDER NO. M 49361230 LINE 001		CUST. ORD. NO. 438268	PRECISION TUBE P/N 24A037500580006						
SOLD: TW METALS TO 235 TUBEWAY CAROL STREAM, IL 60188 UNITED STATES		SHIP: TW METALS TO 235 TUBEWAY CAROL STREAM, IL 60188 UNITED STATES							
QUANTITY ORD.	DESCRIPTION		QTY. SHIPPED	DATE SHIPPED					
4008 FT	METAL - 6061 ALUM TEMPER - T6 SPEC - AMS 4082P AMS-WW-T-700/6C ASTM-B-210-12 LENGTH - 12 FT LGTH TOL +.1250 IN -.0000 IN SHAPE - ROUND FINISH - STRAIGHT EXACT LENGTHS OD .3750 +.0030 -.0030 ID WALL .0580 +.0040 -.0040		4188 FT	12/21/16					
MECHANICAL PROPERTIES									
SAMPLE #	TENSILE STRENGTH (P.S.I.)	YIELD STRENGTH (P.S.I.)	ELONGATION IN 2 INCHES (%)	ROCKWELL HARDNESS					
1	44,103	37,550	20						
DESTRUCTIVE TESTS									
Comments: FAR BAA COMPLIES, DFARS BAA COMPLIES, FAR TAA COMPLIES									
NON-DESTRUCTIVE TESTS									
EDDY CURRENT: PASS									
CHEMICAL COMPOSITION									
ALLOY: 6061	HEAT:	TRACEABILITY #: 1180968 RAW MATL VENDOR: PTC7874 - Kaiser Aluminum							
Min	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Al
Max	0.40		0.15		0.80	0.04			Rem.
OTHER ELEMENTS: 0.05 MAX EACH / 0.15 MAX TOTAL									

We hereby certify that the material has been manufactured and tested in accordance with the requirements of the applicable specifications and descriptions set forth on Precision Tube's sales acknowledgement. During the manufacturing, testing and inspection, the product did not come into direct contact with mercury or any of its compounds, nor with any mercury containing device employing a single boundary containment. Test results indicate that the material is compliant with the current revision of the RoHS Directive (2011/65/EU).

Melted and Manufactured in USA
QMS Registered to ISO 9001: 2008

By: Art Onaitis
Art Onaitis
QA Manager

12/21/16
Page: 1 of 1

KAISER

ALUMINUM

FABRICATED PRODUCTS

KAISER ALUMINUM
FABRICATED PRODUCTS, LLC
2425 STEVENS DRIVE
RICHLAND, WA 99352

CERTIFIED TEST REPORT

<http://OnlineKaiserAluminum.com>



CUSTOMER PO NUMBER		CUSTOMER PART NUMBER		PRODUCT DESCRIPTION			
PTC7874		SPIRIT-371850		5.400 LB/PC .500 LB/-0 LB 1.312 OD X .085 WALL ESRT			
KAISER ORDER NUMBER:	LINE ITEM:	SHIP DATE:	KAISER LOT NUMBER:	ALLOY:	TEMPER:		
320897	001	10/28/2016	50751-347	6061	O		
WEIGHT SHIPPED:	QUANTITY:	B/L NUMBER:	DIAM/DAF/THKNS:	WIDTH:	LENGTH:		
10769.000 LB	1950.000 PCS	005171			13.984 FT		
SHIP TO:		SOLD TO: MUELLER INDUSTRIES, INC PRECISION TUBE 8285 TOURNAMENT DRIVE STE. 150 MEMPHIS, TN 38125 USA					
PRECISION TUBE CO 287 WISSAHICKON AVENUE N. WALES, PA 19454 USA							

Actual Physical Properties

REFERENCE	DASH#	SAMPLE#	UTS (KSI)	YTS (KSI)	%Elong in 2	HARDNESS	CONDUCT.	BEND
50751-347	0001	0001	18.7	5.9	27.2	N/A	N/A	N/A
50751-347	0001	0002	18.4	5.5	27.8	N/A	N/A	N/A
50751-347	0001	0003	18.3	5.6	27.1	N/A	N/A	N/A
50751-347	0001	0004	18.0	5.5	26.7	N/A	N/A	N/A
50751-347	0001	0005	18.3	5.9	27.2	N/A	N/A	N/A
50751-347	0001	0006	17.7	5.6	27.6	N/A	N/A	N/A
50751-347	0001	0007	18.3	5.9	26.8	N/A	N/A	N/A
50751-347	0001	0008	18.6	5.7	25.7	N/A	N/A	N/A
50751-347	0001	0009	18.2	5.5	26.5	N/A	N/A	N/A
50751-347	0001	0010	18.6	5.8	26.0	N/A	N/A	N/A
50751-347	0001	0011	18.5	5.7	28.6	N/A	N/A	N/A

Chemical Composition (wt%), Aluminum Remainder

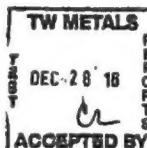
LIMITS	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Pb	Bi	Zr	Ea	Tot
Maximum	0.80	0.70	0.40	0.15	1.20	0.35	0.25	0.15	NA	NA	NA	0.05	.15
Minimum	0.40	0.00	0.15	0.00	0.80	0.04	0.00	0.00	NA	NA	NA	0.00	.0
F76091	.58	.30	.22	.06	1.03	.09	.08	.03	.00	.00	.00	.01	.02
F76216	.60	.30	.21	.05	1.01	.09	.07	.03	.00	.00	.00	.01	.02

Applicable Requirements:

ASTM-B241-16 NON-STENCILED ASTM-B221-14 ASTM-B345-11 AMS-QQ-A-200/9A TYPE I
UNS#A96061 Also conforms to EN 10204 3.1

Miscellaneous Notes

MANUFACTURED IN USA MELTED IN USA
MERCURY IS NOT A NORMAL BACKGROUND ELEMENT IN ALUMINUM ALLOYS. NEITHER MERCURY NOR ANY
OF ITS COMPOUNDS ARE UTILIZED BY KAISER ALUMINUM IN THE MANUFACTURE OF THIS MATERIAL.



Plant Serial: 00015006
Kaiser Order Number: 320897
Line Item: 001

KAISER

ALUMINUM

FABRICATED PRODUCTS

KAISER ALUMINUM
FABRICATED PRODUCTS, LLC
2425 STEVENS DRIVE
RICHLAND, WA 99352

CERTIFIED TEST REPORT

<http://Online.KaiserAluminum.com>

CERTIFICATION

Kaiser Aluminum Fabricated Products, LLC hereby certifies that metal shipped under this order has been inspected and tested and found in conformance with applicable specifications forming a part of the description set forth in Kaiser's sales acknowledgement form. Any warranty is limited to that shown on Kaiser's general terms and conditions of sale. Test reports are on file, subject to examination.

JOSEPH AMES, QUALITY MANAGER



Plant Serial: 00015006
Kaiser Order Number: 320897
Line Item: 001

KAISER ALUMINUM FABRICATED PRODUCTS

*Brett in
Gloss*

CERTIFIED TEST REPORT

<http://Online.KaiserAluminum.com>

KAISER ALUMINUM
FABRICATED PRODUCTS, LLC
6573 W. WILLIS ROAD
CHANDLER, AZ 85226

CUSTOMER PO NUMBER:		CUSTOMER PART NUMBER:		PRODUCT DESCRIPTION:			
M49360917-1		42588		Drawn Seamless Tube/Pipe			
KAISER ORDER NUMBER:	LINE ITEM:	SHIP DATE:	KAISER LOT NUMBER:	ALLOY:	TEMPER:		
221973	001	12/05/2016	F00229976	6061	T6		
WEIGHT SHIPPED:	QUANTITY:	B/L NUMBER:	DIAM/DAF/THKNS:	WIDTH:	LENGTH:		
239.000 LB	86.000 PCS	223667			12.000 FT		
SHIP TO:		SOLD TO:					
TW METALS INC 27 ENGLEHARD DRIVE EXIT 8A OFF NJ TPK MONROE TWP, NJ 08831 USA		TW METALS INC 760 CONSTITUTION DRIVE SUITE 204 EXTON, PA 19341 USA					

Actual Physical Properties

REFERENCE	DASH#	SAMPLE#	UTS (KSI)	YTS (KSI)	ELONG%	HARDNESS	CON% IACS	BEND
F00229976	0001	1	46.9	40.5	17.5	N/A	N/A	N/A

Chemical Composition (wt%), Aluminum Remainder

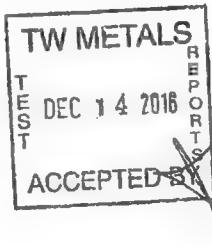
LIMITS	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Pb	Bi	Zr	Ea	Tot
Maximum	0.80	0.70	0.40	0.15	1.20	0.35	0.25	0.15	NA	NA	NA	0.05	0.15
Minimum	0.40	0.00	0.15	0.00	0.80	0.04	0.00	0.00	NA	NA	NA	0.00	0.00
D76008	.59	.26	.22	.04	1.00	.10	.05	.02	.00	.00	.00	.01	.02

Applicable Requirements:

Description: OD: 0.6250"; Wall: 0.1250"; Round @
 AMS4082P AMS-WW-T-700/6C ASTM B210-12 WW-T-700/6F
 WE TAKE EXCEPTION TO PARA. 5.2.1., Per AMS-4082P, WAS NOT OILED.
 This Product Complies to FAR BAA, DFARS BAA, FAR TAA
 COMPLIES TO DIN EN 10204 JAN 2005
 No Weld Repair. Mercury Free.

Miscellaneous Notes

MANUFACTURED IN USA MELTED IN USA
 MATERIAL COMPLIES WITH FAR BAA (FAR 52.225-1, BUY AMERICAN ACT- SUPPLIES), DFARS BAA
 (DFARS 252.225-7001 BUY AMERICAN ACT & BAL OF PAYMENTS PROG), AND FAR TAA (FAR 52.225-5
 TRADE AGREEMENTS).



KAISER
ALUMINUM
FABRICATED PRODUCTS

KAISER ALUMINUM
FABRICATED PRODUCTS, LLC
6573 W. WILLIS ROAD
CHANDLER, AZ 85226

Bertin Goss

CERTIFIED TEST REPORT

<http://Online.KaiserAluminum.com>

CERTIFICATION

Kaiser Aluminum Fabricated Products, LLC ('Kaiser') hereby certifies that metal shipped under this order has been inspected and tested and found in conformance with the applicable specifications forming a part of the description set forth in Kaiser's sales acknowledgement form. Any warranty is limited to that shown on Kaiser's general terms & conditions of sale. Test reports are on file subject to examination.

Hans Kattentidt, Quality Manager



PUFA™

Producer of Premium Stainless Steel Seamless Tubes

MILL TEST REPORT

Purchaser.: TW METALS-Cranbury			Certificate No.: 2016-12-78											
Contract No.: TWM P.O.No.: M49354071			Date of Issue.: 2016.12.17											
Commodity: Stainless Steel Seamless Tubes		Specifications: ASTM A213-15c/ASME SA213-15/ASTM A269-15a EAW												
Process: Cold Drawn		Delivery Condition: OD Polished to 240 Grit												
Steel Grade	Heat Number	Lot Number	Dimensions		Quantity									
TP304/TP304L	YX1509-583	10-46	3/8"x0.035"x20'		Pieces	Feet								
Chemical Composition by Weight (%)														
Element	C	Mn	P	S	Si	Cr	Ni	Mo	Co					
Requirements	≤0.035	≤2.00	≤0.045	≤0.030	≤1.00	18.00-20.00	8.00-12.00	-	-					
Ladle Analysis	0.025	0.61	0.030	0.002	0.34	18.31	8.05	-	-					
Product Analysis	0.021	0.57	0.032	0.002	0.33	18.78	8.52	-	-					
Mechanical Properties														
Test Item	Elongation (% in 2")		Tensile Strength (PSI)			Yield Strength (PSI)								
Requirements	≥35		Rm			Rp / 0.2%								
Test Results	77/79		≥75,000			≥30,000								
Test Item	Reduction of Area Z (%)	Hardness	Cold Bend Test	Flaring Test	Flattening Test	Flange Test	P.M.L Test							
Requirements	-	HRB≤80	-	22%	e=0.09	-	-							
Test Results	-	77/79	-	Passed	Passed	-	OK							
Test Item	Eddy Current Test	Air Underwater Pressure Test	Ultrasonic Test	Intergranular Corrosion Test	Macroscopic Inspection									
Requirements	ASTM E 426	-	-	ASTM A262 E	End Cut	Appearance								
Test Results	Passed	-	-	OK	OK	OK								

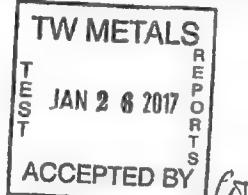
ISO 9001:2008 Certified by CAS 117 16 QU 0053-06 ROS

PED Certified by SZUTEST 2195-PED-1526002

Additional Remarks:

- (1) All tubes annealed to above 1900 Deg F and water quenched below 800 Deg F in 3 minutes
- (2) All tubes tested per ASTM A1016-14
- (3) Materials is NACE MR0103-2007 compliant (per Section 2.5)
- (4) Materials is NACE MR0175/ISO 15156-2003 compliant (per Section 4.2.1)
- (5) In Compliance with EN 10204-3.1
- (6) In Compliance with RoHS Stipulation
- (7) No weld repair performed
- (8) Free from mercury contamination
- (9) Free from radioactive contamination
- (10) Billets melt and pipes/tubes manufactured in China
- (11) All tubes 100% PMI tested
- (12) All tubes 100% Eddy Current tested

CANNOT CERTIFY COMPLIANCE
FAR BAA / DFARS BAA / FAR TAA



By:

James Shi

James Shi / Manager

Quality Control Department

We hereby certify that this report is true and correct.

Jiangsu Pufa Stainless Steel Tube Co., Ltd.

No. 99, Xuean Middle Road, Dongchen Town, Rugao City, Jiangsu Province, P.R.China

PUFA™

Producer of Premium Stainless Steel Seamless Tubes

MILL TEST REPORT

Purchaser.: TW METALS-Cranbury			Certificate No.: 15-5-23						
Contract No.: TWM P.O.No.: M49329273			Date of Issue.: 2015.5.7						
Commodity: Stainless Steel Seamless Tubes			Specifications: ASTM A213-14/ASME SA213-13/ASTM A269-14 EAW						
Process: Cold Drawn			Delivery Condition: OD Polished to 240 Grit						
Steel Grade	Heat Number	Lot Number	Dimensions			Quantity			
						Pieces	Feet		
TP304/TP304L	YX1410-664	4-34	3/8" x 0.065" x 20'			250	5,000		
Chemical Composition by Weight (%)									
Element	C	Mn	P	S	Si	Cr	Ni	Mo	Co
Requirements	≤0.035	≤2.00	≤0.045	≤0.030	≤1.00	18.00-20.00	8.00-12.00	-	-
Ladle Analysis	0.010	0.63	0.028	0.001	0.46	18.33	8.05	-	-
Product Analysis	0.019	0.79	0.033	0.001	0.51	18.52	8.50	-	-
Mechanical Properties									
Test Item	Elongation (% in 2")		Tensile Strength (PSI)			Yield Strength (PSI)			
	≥35		Rm			Rp / 0.2%			
Requirements	≥35		≥75,000			≥30,000			
Test Results	63/64		92,000/93,000			36,000/37,000			
Test Item	Reduction of Area Z (%)	Hardness	Cold Bend Test	Flaring Test	Flattening Test	Flange Test	P.M.I. Test	OK	
Requirements	-	HRB≤80	-	30%	e=0.09	-	-	OK	
Test Results	-	77/79	-	Passed	Passed	-	-	OK	
Test Item	Eddy Current Test	Air Underwater Pressure Test	Ultrasonic Test	Intergranular Corrosion Test	Macroscopic Inspection				
					ASTM A262 E	End Cut	Appearance	OK	
Requirements	ASTM E 426	-	-	-	OK	OK	OK	OK	
Test Results	Passed	-	-	-	OK	OK	OK	OK	

ISO 9001:2008 Certified by Intertek 110703068

PED Certified by SZUTEST 2195-PED-1221604

Additional Remarks:

- (1) All tubes annealed to above 1900 Deg F and water quenched below 800 Deg F in 3 minutes
- (2) All tubes tested per ASTM A1016-14
- (3) Materials is NACE MR0103-2007 compliant (per Section 2.5)
- (4) Materials is NACE MR0175/ISO 15156-2003 compliant (per Section 4.2.1)
- (5) In Compliance with EN 10204-3.1
- (6) In Compliance with RoHS Stipulation
- (7) No weld repair performed
- (8) Free from mercury contamination
- (9) Free from radioactive contamination
- (10) Billets melt and pipes/tubes manufactured in China
- (11) All tubes 100% PMI tested
- (12) All tubes 100% Eddy Current tested

**CANNOT CERTIFY COMPLIANCE
FAR BAA / DFARS BAA / FAR TAA**

By:

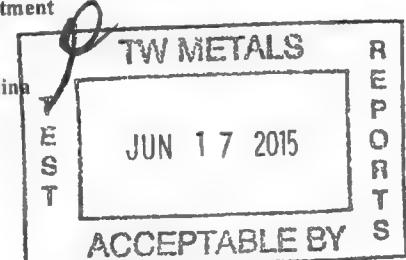


James Shi

James Shi / Manager
Quality Control Department

We hereby certify that this report is true and correct.

Shanghai Pufa Stainless Steel Pipe Factory
No. 59, Shuangye Road, Wanggang, New Pudong District, Shanghai, China



Benteler Steel/Tube GmbH
Postfach 13 40
33013 Paderborn
Deutschland
Tel.: +49.5254.81-0 Fax: +49.5254.13666

BENTELER ▼ Steel/Tube

ABNAHMEPRÜFZEUGNIS EN 10204-3.1 INSPECTION CERTIFICATE EN 10204-3.1 CERTIFICAT DE RECEPTION EN 10204-3.1 EN 10204-2005-01

Benteler Steel/Tube GmbH - Postfach 1340 - 33013 Paderborn - Deutschland
TW Metals
The Aboretum, Suite 204
760 Constitution Drive
EXTON PA 19341
USA

Dokument-Nr.:	41-970599/001/P	Prüf-Nr.:	1 / 4
No. du document:		No. du certificat:	
Kunden-Bestell-Nr.:	46004514 TW M49355846	Hersteller:	Warmrohrwerk/Zieherei
Purchase Order No.:		Manufacture:	IDN EN ISO 9001, ISO TS-16949 CERTIFIED BY TUEV NORD CERT
No. de commande du client:		Producteur:	[PFD 2014/49/EU CERTIFIED BY TUEV NORD SYSTEMS]
Benteler Auftrags-Nr.:	1627804	Herstellerzeichen:	▼
Benteler Order No.:		Manufacture's brand:	
No. de commande Benteler:		Marque du producteur:	
Versandanzeiger-Nr.:	4176284	Stempel des Abnahmbeauftragten:	WA
Dispatch Note No.:		Stamp of the inspection representative:	
No. d'avis d'expédition:		Pointage du contrôleur:	
Produkt: NAHTLOSE STAHLROHRE	ELEKTROSTAHL	Stahlerschmelzungsverfahren:	
Product: SEAMLESS STEEL TUBES	ELECTRIC FURNACE	Steelmaking process:	
Produit: TUBES D' ACIER SANS SCUDURE	FOUR ELECTRIQUE	Procédé d'élaboration de l'acier:	
Lieferbedingungen:	AMS-T-6736B Type 1, ASTM-A 519-2006, MIL-T-6736B Type 1, AMS6360 Rev. M, AMS 2301K	Terms of delivery:	
Conditions de livraison:	straightness acc. to customer request, AMS 2253E-83, Aircraft Type, Seamless, Cold Finished	Maße - Toleranzen:	
Dimensions-tolerances:		Dimensions-tolerances:	
Stahlsorte:	GRADE 4130	Steel grade:	
Nähere d'acier:	Condition N	Lieferzustand:	
Delivery conditions:		Delivery conditions:	
État de livraison:		Etat de livraison:	
Produktkennzeichnung:	FSD: BENTELER AMS6360M-AMS-T-6736 B 1-MIL-T-6736 B 1-AMS 2301K 4130 Condition N HEAT-NO.	Product marking:	
Product marking:	CD AQ S DIMENSIONS WA GERMANY	Marque du produit:	

AEZ = Acidinenbeschriftung, Erosion ink marking, Gravure à l'encre couleur . FK = Farbbeschichtung, color marking, marquage par peinture . FSD = Farbschichtdrucker, Color jet printer, imprimante à jet d'encre . PS = Prägestempel, die stamp, marquage sur étiquette . TS = Tintenstrahlemalzeichnung, tag marking, marquage à l'encre . PCE = Etikettentrennzeichnung, Laser marking, Marquage laser .



Tel.: +49 5254 81-0 Fax: +49 5254 13666

ABNAHMEPRÜFZEUGNIS EN 10204-3.1
INSPECTION CERTIFICATE EN 10204-3.1
CERTIFICAT DE RECEPTION EN 10204-3.1

Dokument-Nr.:						Prüf-Nr.:					
Document No.:						Inspection No.:					
No. du document:						No. du certificat:					
Pos.			Stück			Maße			Gesamtänge		
Item			Dimensions			Length total			Gewicht		
Poste			Dimensions			Longueur totale			Heat No.		
Item			Dimensions			Poids			No. de coulée		
Poste			feet			lbs			Test pressure		
0003	79	0.500"	O.D.	* 0.049"	WT	20	FT	- 24	FT	1588,81	388
										251772	

Schmelzenanalyse [%] / Heat analysis [%] / Analyse sur coulée [%]

Produktanalyse [%] / Product analysis [%] / Analyse sur produit [%]

Prüfergebnisse / Test results / Résultats des essais

Die Rohre wurden zerstörungsfrei geprüft:

The tubes are non destructive tested:

Les tubes ont passé un essai non destructif:

Augensichtskontrolle: PASSED

Materialverwechslungsprüfung: PASSED

Material conformity test: PASSED

Visual inspection: Verification de la nuance: PASSED

Examen visuel: Vérification de la nuance: PASSED

Ergebnisse der mechanischen Prüfung / Results of mechanical testing / Résultats des essais mécaniques

Die Probennahme erfolgte an Vielfachlängen.

The sampling was carried out on multiple lengths.

L'échantillonage était réalisé aux longueurs multiples.

Blatt: 2 / 4

Page:

Page:

Page:

ABNAHMEPRÜFZEUGNIS EN 10204-3.1				Dokument-Nr.:	41-970599/0011/P	Prüf-Nr.:	
INSPECTION CERTIFICATE EN 10204-3.1				Document No.:	Inspection No.:	Blatt: 3 / 4	
CERTIFICATE DE RECEPTION EN 10204-3.1				No. du document:	No. du certificat:	Page:	
Zugversuch längs bei RT, Vollprobe / Tensile test longitudinal at RT, Full section test specimen / Essai de traction longitudinale à TA, Epreuve à section complète							
Pos.	Proben-Nr. Specimen No. No. de l'éprouv.	Schnellzett.-Nr. Heat No. No. de coulée	Probendabmessung Specimen dimensions Dimensions de l'éprouv.	Streckgrenze Yield strength Limité élastique	Zugfestigkeit Tensile strength Résistance à la traction Allongement	Dehnung Elongation	
Anforderungen Requirements			mm	Rp 0,2 % KSI MIN 75	Rm. KSI MIN 95	A2 ^a % MIN 12,00	1. Formel 1. Formule 1. Formule
Exigences	000001 000002	2511772 2511772	12,72 X 12,72 X	1,24 1,24 101	99 128 129	18,00 18,00 18,00	

Randentkohlung / Surface decarburization / Décarburation superficielle

Pos. / Item / Poste: 0003
acc. to AMS-6360, partial decarburization outside max. 0.009 in, partial
decarburization outside and inside max. 0.012 in, partial decarburization outside and inside max. 0.305 mm, without total
decarburization; partial decarb. out. max.: 0,229 mm; partial decarb. ins. max.: 0,229 mm

Vermerk / Remark / Remarque

Pos. / Item / Poste: 0003
Certificate remarks: The steel grade corresponds to MIL-T-6736B, AMS 6360M, material free from mercury contamination, FAR BAA;
52.225-1 CANNOT COMPLY, DFARS BAA; 252.225-7001 CAN COMPLY, FAR TAA: 52.225-5 CAN COMPLY, No weld repair has been carried out,
Country of origin of the material and heat: Germany, Aircraft quality steel acc. to AMS 2301K / Semi finished product
examination: see appendix, page 1 of 1

Pos. / Item / Poste: 0003
Macroscopic examination: acc. to ASTM-E 381

Pos. / Item / Poste: 0003
Magnetic particle inspec.: acc. to AMS 2301K/ASTM-E 1444, on prematerial

Pos. / Item / Poste: 0003
Grain size: acc. to ASTM-E 1112; Grain size and finer: 5; Grain size: Longitudinal structure micrography, On prematerial

Verkäufer(in) / Sales Personnel / Personne chargée : Mr Schwarz, Tel.: 05254 81-204311, Fax: 204391

Benteler Steel/Tube GmbH
Postfach 13 40
33043 Paderborn
Deutschland
Tel.: +49.5254.81-0 Fax: +49.5254.113666

BENTELER ▶
Steel/Tube

ABNAHMEPRÜFZEUGNIS EN 10204-3.1
INSPECTION CERTIFICATE EN 10204-3.1
CERTIFICAT DE RECEPTION EN 10204-3.1

Dokument-Nr.:

Document No.:

No. du document:

Prüf-Nr.:

Inspection No.:

No. du certificat:

Blatt:

Page:

Page:

Paderborn Schloß Neuhaus, 07.11.2016, TEL.: 05254.81-201766 FAX: 05254.81-201752

Abnahmeherauftragter
Inspection representative

Contrôleur

i-A. THOMAS GOLLAN / ICK

Es wird bestätigt, dass die gelieferten Erzeugnisse den techn. Lieferbedingungen des Auftrages entsprechen. Dieses Dokument wurde mittels EDV erstellt und ist ohne Unterschrift rechtsfähig.

We certify that the supplied products comply with the order specification. This document was prepared by means of electronic data processing and is valid without signature.

Nous attestons que les produits livrés sont conformes aux stipulations de la commande. Ce document a été établi par traitement électronique de l'information et est valide sans signature.

Benteler Steel/Tube GmbH
 Residenzstraße 1
 33104 Paderborn
 Germany
 Tel.: (0)5254.81-201760 Fax: (0)5254.13866

BENTELER ▶

Steel/Tube

Abnahmeprüfzeugnis EN 10204-3.1 / Anhang
Inspection Certificate EN 10204-3.1 / appendix
 Certificat de réception EN 10204-3.1 / appendice

Dokument-Nr.
 Document No.:
 No. de document:

41-970599/001/P

Blatt:
 Page:
 Page:

1 of 1
 de

Halzeuguntersuchung: Stahlsorte 4130 / Semi-finished product examination: grade 4130 / Produit semi-fin: nuance 4130

Schmelzen-Nr. Heat No. Coulée No.	Position Item Poste	Korngröße Grain size Grosseur de grain (ASTM-E 112)	Härtbarkeit (min. Anforderungen) Hardenability (min. requirements) Tremperabilité (exigence min.) (ASTM-A 255)	Macroprüfung Macrostructure test Essai de macrostructure (ASTM-E 381)				
				J(5/16") min. 35 HRC	J(8/16") min. 28 HRC	F max. 0,34	S max. 0,25	max. S 2
251772	003	9	41	31	0,020	0,020	S 2	R 1
			Decarburization Depth	Outside 0,000 mm	Inside 0,000 mm			C 2

Der Stahl ist frei von Quecksilberverunreinigungen. / The steel is free of mercury contamination. / L'acier est libre des contaminations de mercure.

[Handwritten signature]
 Benteler Steel/Tube GmbH
 Abnahmebeauftragter
 Inspection representative
 Contrôleur

Paderborn Schloß Neuhaus, 07.11.2016

Tel.: (0)5254.81-201760 Fax: (0)5254.81-201752

Thomas Golan



PLYMOUTH TUBE CO. USA

212 Industrial Park Road, Eupora, Mississippi 39744
Phone: (662) 258-2420 Fax: (662) 258-2075

PRODUCT CERTIFICATION

SALES ORDER - LINE / RLS

143275 - 1 / 3

WORK ORDER A43275
HEAT NUMBER MM16101444

MELT SOURCE Nucor Steel - USA Melt/Mfg

SHIP TO

TW Metals
27 Englehard Drive
Monroe Township, NJ 08831
USA



CUSTOMER P.O.	CUSTOMER PART	QUANTITY	LADING NO	CERT ID / REV	CERT DATE
M 49354259	33364	2,697.0 ft	00087888	01	08/15/2016

PART DESCRIPTION H10001200J002
OD: 1.0000" Max: 1.0050" Min: 0.9950"
Wall: 0.1200" Max: 0.1320" Min: 0.1080"
Length: 20.00' / 24.00' Lgth Tol: RANDOM CUT LENGTH
Lgth: 20.00' / 24.00'
Spec: Mil-T 6736B Seamless Aircraft
Grade: 4130
Finish: Cond N

TW METALS
TEST AUG 22 2016
REPORTS
ACCEPTED BY

CERTIFICATION REQUIREMENTS

This material was Eddy Current tested and conforms to the requirements of ASTM A-450.
The Grain size is determined and reported by the raw material supplier in accordance to ASTM E-112.
This raw material was magnetic particle inspected by the raw material supplier in accordance to AMS 2640J and/or ASTM E-1444, and rated as Frequency, and Severity to AMS 2301, latest revision.
Yield is determined by using the 0.2% offset method.

Chemical Analysis

C	Mn	P	S	Si	Cu	Ni	Cr	Mo	V	Ti	Al	Sn
.31	.53	.008	.005	.23	.17	.13	1.04	.218	.0024	.002	.023	.007

Physical Properties

Freq.	Severity	Grain Size
.000	.000	6

Mechanical Properties

TEST	UNITS	#TESTS	HIGH	LOW	AVERAGE	STD-DEV
Tensile	.Psi	3	107900	105700	107133	1242
Yield	.Psi	3	100500	92100	97267	4521
Elongation	%	3	21	20	21	1

TEST	RESULT
Decarb/OD	Pass
Total ID/OD decarb	Pass

TEST	UNITS	#TESTS	HIGH	LOW	AVERAGE	STD-DEV
Rockwell C	Rc	3	22	21	21	1
Rockwell B	Rb		—	—	—	—

I certify that the results are a true and correct copy of the records prepared and maintained by Plymouth Tube Company, Eupora in compliance with the requirements of the cited specification. Chemistry is as reported by the Steel supplier. This test report cannot be reproduced or distributed except in full without the written permission of Plymouth Tube. Product free from hazardous materials.

George J. Young
Quality Assurance

**PLYMOUTH TUBE CO.** [®]212 Industrial Park Road, Eupora, Mississippi 39744
Phone: (662) 258-2420 Fax: (662) 258-2075**PRODUCT CERTIFICATION**

SALES ORDER - LINE / RLS

143275 - 1 / 3

WORK ORDER A43275
HEAT NUMBER MM16101444

MELT SOURCE Nucor Steel - USA Melt/Mfg

SHIP TOTW Metals
27 Englehard Drive
Monroe Township, NJ 08831
USA

CUSTOMER P.O.	CUSTOMER PART	QUANTITY	LADING NO	CERT ID / REV	CERT DATE
M 49354259	33364	2,697.0 ft	00087888	01	08/15/2016
PART DESCRIPTION	H10001200J002				

Additional Specification(s)

AMS-T6736 B, AMS 6360M

This test report data is for the heat Chemistry Stated above.

Drawn in the USA

-End of Certification-

I certify that the results are a true and correct copy of the records prepared and maintained by Plymouth Tube Company, Eupora in compliance with the requirements of the cited specification. Chemistry is as reported by the Steel supplier. This test report cannot be reproduced or distributed except in full without the written permission of Plymouth Tube. Product free from hazardous materials.

George F. Young
Quality Assurance

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M4130NTO, 500W, 048
 DATE: 17-2-22

PO / BATCH NO.: PO 35245 / M136846

MATERIAL CERT REC'D: Y
 QUANTITY RECEIVED: 20'f
 QUANTITY INSPECTED: 20'f
 QUANTITY REJECTED: 0

THICKNESS ORDERED: .500X.048
 THICKNESS RECEIVED: .500X.048
 SHEET SIZE ORDERED: 0
 SHEET SIZE RECEIVED: 0

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y <u>(N)</u>	
CORRECT FINISH	<u>(Y)</u> N	
CORROSION	Y <u>(N)</u>	
CORRECT GRAIN DIRECTION	<u>(Y)</u> N	
CORRECT MATERIAL	<u>(Y)</u> N	
CORRECT THICKNESS	<u>(Y)</u> N	
PHOTO REQUIRED	Y <u>(N)</u>	
CORRECT MATERIAL	<u>(Y)</u> N	
CORRECT REF # TO LINK CERT	<u>(Y)</u> N	
CORRECT MATERIAL IDENTIFICATION	<u>(Y)</u> N	<u>251772</u>
CORRECT M# ON THE MATERIAL	<u>(Y)</u> N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y N	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y N	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING	HRC	HRB	DUR A	DUR D	

testers located in the Quality Office

QC 1B INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>38</u> <u>p-BS</u> DATE: <u>FEB 22 2017</u>	SIGNED OFF BY: _____ DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: H304TR0.375W.065
 DATE: 17-2-22

PO / BATCH NO: PO35245/M136846

MATERIAL CERT REC'D: Yes
 QUANTITY RECEIVED: 20' l
 QUANTITY INSPECTED: 20' f
 QUANTITY REJECTED: 0

THICKNESS ORDERED: .375 Y .065
 THICKNESS RECEIVED: .375 X .065
 SHEET SIZE ORDERED: D
 SHEET SIZE RECEIVED: D

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y <u>N</u>	
CORRECT FINISH	<u>Y</u> N	
CORROSION	Y <u>N</u>	
CORRECT GRAIN DIRECTION	<u>Y</u> N	
CORRECT MATERIAL	<u>Y</u> N	
CORRECT THICKNESS	<u>Y</u> N	
PHOTO REQUIRED	Y <u>N</u>	
CORRECT MATERIAL	<u>Y</u> N	
CORRECT REF # TO LINK CERT	<u>Y</u> N	
CORRECT MATERIAL IDENTIFICATION	<u>Y</u> N	<u>YX1410669</u>
CORRECT M# ON THE MATERIAL	<u>Y</u> N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y N	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y N	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING	HRC	HRB	DUR A	DUR D	

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>DAS</u> <u>38</u>	SIGNED OFF BY: _____
DATE: <u>FEB 22 2017</u>	DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M304TRO, 375W, .035
 DATE: 17-2-22

PO / BATCH NO. PO 35245 / M 136846

MATERIAL CERT REC'D: Y
 QUANTITY RECEIVED: 20' ft
 QUANTITY INSPECTED: 20' ft
 QUANTITY REJECTED: 0

THICKNESS ORDERED: .375 X .035
 THICKNESS RECEIVED: .375 X .035
 SHEET SIZE ORDERED: 0
 SHEET SIZE RECEIVED: 0

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y <u>N</u>	
CORRECT FINISH	Y <u>N</u>	
CORROSION	Y <u>N</u>	
CORRECT GRAIN DIRECTION	Y <u>N</u>	
CORRECT MATERIAL	Y <u>N</u>	
CORRECT THICKNESS	Y <u>N</u>	
PHOTO REQUIRED	Y <u>N</u>	
CORRECT MATERIAL	Y <u>N</u>	
CORRECT REF # TO LINK CERT	Y <u>N</u>	
CORRECT MATERIAL IDENTIFICATION	Y <u>N</u>	YX 1509583
CORRECT M# ON THE MATERIAL	Y <u>N</u>	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y <u>N</u>	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y <u>N</u>	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING	HRC	HRB	DUR A	DUR D	

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>38</u> <u>3-89</u>	SIGNED OFF BY: _____
DATE: <u>FEB 22 2017</u>	DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

MATERIAL RECEIPT INSPECTION FORM

MATERIAL M6061-T6 TO, 625W, 125
 DATE: 17-2-22

PO / BATCH NO.: P035245/M136846

MATERIAL CERT REC'D: Yes
 QUANTITY RECEIVED: 24 ft
 QUANTITY INSPECTED: 24 ft
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 0.625 Y, 125
 THICKNESS RECEIVED: 0.625 Y, 125
 SHEET SIZE ORDERED: 6
 SHEET SIZE RECEIVED: 6

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y <u>N</u>	
CORRECT FINISH	<u>Y</u> N	
CORROSION	Y <u>N</u>	
CORRECT GRAIN DIRECTION	<u>Y</u> N	
CORRECT MATERIAL	<u>Y</u> N	
CORRECT THICKNESS	<u>Y</u> N	
PHOTO REQUIRED	Y <u>N</u>	
CORRECT MATERIAL	<u>Y</u> N	
CORRECT REF # TO LINK CERT	<u>Y</u> N	
CORRECT MATERIAL IDENTIFICATION	<u>Y</u> N	F602299760001
CORRECT M# ON THE MATERIAL	<u>Y</u> N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y N	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y N	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING	HRC	HRB	DUR A	DUR D	

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>3-89</u> <u>FEB 22 2017</u> DATE: <u></u>	SIGNED OFF BY: _____ DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M6061T6 TO. 375W, 05-8

PO / BATCH NO. PO 35245 / M136846

DATE: 17-2-22

MATERIAL CERT REC'D: Yes
 QUANTITY RECEIVED: 48' ft
 QUANTITY INSPECTED: 48' ft
 QUANTITY REJECTED: 0

THICKNESS ORDERED: .375 X 0.58
 THICKNESS RECEIVED: ~~.375~~ .375 X 0.58
 SHEET SIZE ORDERED: 0
 SHEET SIZE RECEIVED: 0

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
CORRECT FINISH	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
CORROSION	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
CORRECT GRAIN DIRECTION	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
CORRECT MATERIAL	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
CORRECT THICKNESS	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
PHOTO REQUIRED	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
CORRECT MATERIAL	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
CORRECT REF # TO LINK CERT	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	1180968
CORRECT MM# ON THE MATERIAL	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y <input type="checkbox"/> N	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y <input type="checkbox"/> N	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING	HRC	HRB	DUR A	DUR D	

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>BB</u> <u>9-80</u> DATE: <u>FEB 22 2017</u>	SIGNED OFF BY: _____ DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: H304TRU.750W.049
 DATE: 17-2-22

PO / BATCH NO P035245/M186846

MATERIAL CERT RECD: Yes
 QUANTITY RECEIVED: 80'f
 QUANTITY INSPECTED: 80'f
 QUANTITY REJECTED: 0

THICKNESS ORDERED: .750X .049
 THICKNESS RECEIVED: .750X .049
 SHEET SIZE ORDERED: 85
 SHEET SIZE RECEIVED: 85

DESCRIPTION	NCR (Check Y/N)		COMMENTS
	Y	N	
SURFACE DAMAGE	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
CORRECT FINISH	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
CORROSION	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
CORRECT GRAIN DIRECTION	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
CORRECT MATERIAL	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
CORRECT THICKNESS	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
PHOTO REQUIRED	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
CORRECT MATERIAL	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
CORRECT REF # TO LINK CERT	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<u>YX1501783</u>
CORRECT M# ON THE MATERIAL	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
DOES THIS REQUIRE AN EXTRUSION REPORT	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING	HRC	HRB	DUR A	DUR D	

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>36 9-88</u>	SIGNED OFF BY: _____
DATE: <u>FEB 22 2017</u>	DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M304TR0.500 W,049
 DATE: 17-2-22

PO / BATCH NO: P035245/M136846

MATERIAL CERT RECD: Yes
 QUANTITY RECEIVED: 20' ft
 QUANTITY INSPECTED: 20' ft
 QUANTITY REJECTED: 0

THICKNESS ORDERED: .500 X .049
 THICKNESS RECEIVED: .500 X .049
 SHEET SIZE ORDERED: 8'
 SHEET SIZE RECEIVED: 8'

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y <u>N</u>	
CORRECT FINISH	<u>O</u> N	
CORROSION	Y <u>N</u>	
CORRECT GRAIN DIRECTION	<u>O</u> N	
CORRECT MATERIAL	<u>O</u> N	
CORRECT THICKNESS	<u>O</u> N	
PHOTO REQUIRED	Y <u>N</u>	
CORRECT MATERIAL	<u>O</u> N	
CORRECT REF # TO LINK CERT	<u>O</u> N	
CORRECT MATERIAL IDENTIFICATION	<u>O</u> N	<u>YX 1506712</u>
CORRECT M# ON THE MATERIAL	<u>O</u> N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y N	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y N	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING	HRC	HRB	DUR A	DUR D	

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>38</u> <u>0.00</u>	SIGNED OFF BY: _____
DATE: <u>FEB 22 2017</u>	DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: H4130 NT 1,000 W, 120
 DATE: 17-2-22

PO / BATCH NO: P035245/14136846

MATERIAL CERT REC'D: Y
 QUANTITY RECEIVED: 20' ft
 QUANTITY INSPECTED: 20' ft
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 1.000 X 1120
 THICKNESS RECEIVED: 1.000 X 120
 SHEET SIZE ORDERED: D
 SHEET SIZE RECEIVED: D

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y <u>N</u>	
CORRECT FINISH	<u>Y</u> N	
CORROSION	Y <u>N</u>	
CORRECT GRAIN DIRECTION	<u>Y</u> N	
CORRECT MATERIAL	<u>Y</u> N	
CORRECT THICKNESS	<u>Y</u> N	
PHOTO REQUIRED	Y <u>N</u>	
CORRECT MATERIAL	<u>Y</u> N	
CORRECT REF # TO LINK CERT	<u>Y</u> N	
CORRECT MATERIAL IDENTIFICATION	<u>Y</u> N	<u>H416101444</u>
CORRECT MM# ON THE MATERIAL	<u>Y</u> N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y N	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y N	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING	HRC	HRB	DUR A	DUR D	

testers located in the Quality Office

QC 18 INSPECTION		ENGINEERING SIGNOFF (if required)	
INSPECTED BY:	<u>38</u>	SIGNED OFF BY:	
DATE:	<u>FEB 22 2017</u>	DATE:	

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID **PO35245**

Purchase Order Date 2/8/2017
PO Print Date 2/9/2017

Page Number 1 of 5

Order From : VU-TWM001

TW METALS
PO BOX 933014
ALTANTA, GA 31193-3014
US

Ship To : DART AEROSPACE LTD
1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

FEB 08 2017

Contact Name		Buyer	Chantal Lavoie
Vendor Phone	585 768 5600	Customer POID	
Ship To Contact		Customer Tax #	10127-2607
Ship To Phone		Terms	Net 30
Ship Via:	YRC COLLECT	Currency	USD
Ship Acct:		FOB	FCA - (Free Carrier)

Line Nbr	Reference Vendor Part Number	Description/ Mfg ID	Req Date/ Taxable	CD	Req Qty/ Unit of Measure	PO Unit Price	Extended Price
			Promise Date				
1	M304TR0.500W.035	304 RD Tube .500 x .035W	2/15/2017 Yes 2/15/2017		40.00 f	\$1.50	\$60.00
	MATERIAL: AISI 304/316 SA SEAMLESS ROUND TUBING AS PER ASTM A213 OR AMSE SA213 OR ASTM A269						
2	M304TR0.500W.049	304 RD Tube .500 x .049W	2/15/2017 Yes 2/15/2017		20.00 f	\$2.80	\$56.00
	MATERIAL: AISI 304/316 SA SEAMLESS ROUND TUBING AS PER ASTM A213 OR AMSE SA213 OR ASTM A269						
3	M304TR0.750W.049	304 RD Tube .750 x .049W	2/15/2017 Yes 2/15/2017		80.00 f	\$2.10	\$168.00
	MATERIAL: AISI 304/316 SA SEAMLESS ROUND TUBING AS PER ASTM A213 OR AMSE SA213 OR ASTM A269						

Note:

607-02-14



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID **PO35245**

Purchase Order Date 2/8/2017

PO Print Date 2/9/2017

Page Number 2 of 5

Order From : VU-TWM001

TW METALS
PO BOX 933014
ALTANTA, GA 31193-3014
US

Ship To : DART AEROSPACE LTD

1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

Contact Name
Vendor Phone 585 768 5600

Ship To Contact
Ship To Phone
Ship Via: YRC COLLECT
Ship Acct:

Buyer Chantal Lavoie
Customer POID
Customer Tax # 10127-2607
Terms Net 30
Currency USD
FOB FCA - (Free Carrier)

					Line Total:	
4	M6061T6T0.375W.058	6061-T6 RD Tube .375 x.058W	2/15/2017	48.00 ✓	\$2.15	\$168.00 ✓ \$103.20
			Yes 2/15/2017	f		
5	M6061T6T0.625W.125	6061-T6 RD Tube 0.625 X.125W	2/15/2017	24.00 ✓	\$5.15	\$103.20 ✓ \$123.60
			Yes 2/15/2017	f		

MATERIAL: 6061-T6/T62/T6510/T6511 SEAMLESS TUBING
AS PER WW-T-700/6 OR QQ-A-200/8 OR QQ-A-225/8 OR
AMS 4080 OR AMS 4082 OR AMS 4083 OR ASTM B210 OR
ASTM B241

MATERIAL: 6061-T6/T62/T6510/T6511 SEAMLESS TUBING
AS PER WW-T-700/6 OR QQ-A-200/8 OR QQ-A-225/8 OR
AMS 4080 OR AMS 4082 OR AMS 4083 OR ASTM B210 OR
ASTM B241

SP17-0214

Note:



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID **PO35245**

Purchase Order Date 2/8/2017
PO Print Date 2/9/2017

Page Number 3 of 5

Order From : VU-TWM001

TW METALS
PO BOX 933014
ALTANTA, GA 31193-3014
US

Ship To : DART AEROSPACE LTD
1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

Contact Name		Buyer	Chantal Lavoie		
Vendor Phone	585 768 5600	Customer POID	10127-2607		
Ship To Contact		Customer Tax #	Net 30		
Ship To Phone		Terms	USD		
Ship Via:	YRC COLLECT	Currency	FCA - (Free Carrier)		
Ship Acct:		FOB			
7 M304TR0.375W.035	304 TUBING .375 x .035w	2/15/2017	20.00	f	\$3.75
		Yes			\$75.00
		2/15/2017			
MATERIAL: AISI 304/316-SA SEAMLESS ROUND TUBING AS PER ASTM A213 OR AMSE SA213 OR ASTM A269					
8 M304TR0.375W.065	304 RD Tube .375 x .065W	2/15/2017	20.00		\$1.86
		Yes			\$37.21
		2/15/2017			
MATERIAL: AISI 304/316 SA SEAMLESS ROUND TUBING AS PER ASTM A213 OR AMSE SA213 OR ASTM A269					
9 M4130NT0.500W.049	4130 RD Tube .500 x .049W	2/15/2017	20.00		\$3.88
		Yes			\$77.67
		2/15/2017			
MATERIAL: AISI 4130N SEAMLESS STEEL TUBING AS PER MIL-T-6736 OR AMS 6371/6360/6361 6362/6373/6374					

Note:

20170214.



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID **PO35245**

Purchase Order Date 2/8/2017
PO Print Date 2/9/2017

Page Number 4 of 5

Order From : VU-TWM001

TW METALS
PO BOX 933014
ALTANTA, GA 31193-3014
US

Ship To : DART AEROSPACE LTD

1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

Contact Name
Vendor Phone 585 768 5600

Buyer Chantal Lavoie

Ship To Contact
Ship To Phone
Ship Via: YRC COLLECT
Ship Acct:

Customer POID
Customer Tax # 10127-2607
Terms Net 30
Currency USD
FOB FCA - (Free Carrier)

					Line Total:	
10	M4130NT1.000W.120	4130 RD Tube 1.00 x .120wall	2/15/2017	20.00	\$2.89	\$57.72

MATERIAL: AISI 4130N SEAMLESS STEEL TUBING
AS PER MIL-T-6736 OR AMS 6371/6360/6361
6362/6373/6374

					Line Total:	
11	71401-45	PROCUREMENT QUALITY CLAUSES	2/15/2017	1.00	\$0.00	\$0.00

Procurement Quality Clauses
A005 right of entry
A012 chemical and physical test report
A016 personnel qualification
A017 raw material identification (as applicable)
A026 certification of material conformance
A041 quality management system
A042 dart notification by supplier
A043 retention of quality documents

Note:



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
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PURCHASE ORDER

Purchase Order ID **PO35245**

Purchase Order Date 2/8/2017

PO Print Date 2/9/2017

Page Number 5 of 5

Order From :

TW METALS
PO BOX 933014
ALTANTA, GA 31193-3014
US

VU-TWM001

Ship To : DART AEROSPACE LTD
1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

Contact Name
Vendor Phone 585 768 5600
Ship To Contact
Ship To Phone
Ship Via: YRC COLLECT
Ship Acct:

Buyer Chantal Lavoie
Customer POID
Customer Tax # 10127-2607
Terms Net 30
Currency USD
FOB FCA – (Free Carrier)

Line Total: \$0.00

PO Total: \$758.40

Note: Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit www.dartaerospace.com for further explanation.

Change Nbr: 2

Change Date: 2/9/2017